

Application No.: 09/516,090
Attorney Docket No. 99-003

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for communicating data from a wireline terminal to a mobile terminal in a telecommunications network, said method comprising the steps of:

- receiving by a server data destined for the mobile terminal;
- identifying a mobile identification number associated with the mobile terminal;
- determining a route that excludes a home node associated with the identified mobile identification number when a visited node serves the identified mobile identification number; and
- sending the received data to the mobile terminal on a connection initiated by the server and established via the determined route[.];
- preassigning a plurality of Internet Protocol (IP) addresses to the server;
- and
- configuring the server to associate one of the preassigned IP addresses with the mobile terminal.

2. (Original) The method of claim 1, further comprising the steps of:

- receiving by the server data from the mobile terminal on the established connection; and

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sending to the wireline terminal the data received from the mobile terminal.

3. (Original) The method of claim 1, further comprising the step of:
determining by the server another route that includes the home node
when the home node serves the identified mobile identification number.

4. (Original) The method of claim 1, further comprising the step of:
sending the data by the wireline terminal to the server to establish
communication with the mobile terminal.

5. (Original) The method of claim 1, further comprising the step of:
sending the data by the wireline terminal to the server via a packet
network to establish communication with the mobile terminal.

6. (Original) The method of claim 1, wherein the identifying step
comprises the step of:
identifying the mobile identification number based on an identifier
associated with the mobile terminal.

7. (Original) The method of claim 1, wherein the identifying step
comprises the step of:

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identifying the mobile identification number based on an Internet Protocol (IP) address associated with the server and the mobile terminal.

8. (Original) The method of claim 1, wherein the determining step comprises the step of:

identifying a home location register based on the identified mobile identification number.

9. (Original) The method of claim 1, wherein the determining step comprises the step of:

requesting the route from a home location register serving the identified mobile identification number.

10. (Original) The method of claim 1, wherein the determining step comprises the step of:

receiving from a home location register serving the identified mobile identification number a temporary local directory number for establishing the connection to the mobile terminal.

11. (Original) The method of claim 1, wherein the sending step comprises the step of:

establishing the connection to the mobile terminal via a modem that interfaces the server and a wireline switch.

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12. (Original) The method of claim 1, wherein the sending step comprises the step of:

establishing the connection to the mobile terminal via a modem that interfaces the server and a wireless switch.

13. (Original) The method of claim 1, wherein the sending step comprises the step of:

B initiating a call by the server to the mobile terminal based on a temporary location directory number received from a home location register associated with the mobile terminal.

14. (Original) The method of claim 1, wherein the sending step comprises the step of:

initiating a call by the server to the mobile terminal based on a temporary location directory number received from the visited node serving the identified mobile identification number.

15. (Currently Amended) A method for communicating data from a wireline terminal to a mobile terminal in a telecommunications network, said method comprising the steps of:

assembling by the wireline terminal data into one or more data packets;
and

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sending the data packets to a server for communicating the data packets to the mobile terminal on a connection initiated by the server such that the connection is established via a route that excludes a home node associated with the mobile terminal when the mobile terminal resides outside of a geographical area served by the home node[.];

preassigning a plurality of Internet Protocol (IP) addresses to the server;

and

configuring the server to associate one of the preassigned IP addresses with the mobile terminal.

16. (Original) The method of claim 15, wherein the assembling step comprises the step of:

including in the data packets an identifier associated with the mobile terminal.

17. (Original) The method of claim 15, wherein the assembling step comprises the step of:

including in the data packets an Internet Protocol (IP) address associated with the server and the mobile terminal.

18. (Previously Presented) A method for communicating data from a wireline terminal to a mobile terminal in a telecommunications network, said method comprising the steps of:

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assembling by the wireline terminal data into one or more data packets;

sending the data packets to a server for communicating the data packets to the mobile terminal on a connection initiated by the server such that the connection is established via a route that excludes a home node associated with the mobile terminal when the mobile terminal resides outside of a geographical area served by the home node;

preassigning a plurality of Internet Protocol (IP) addresses to the server; and

configuring the server to associate one of the preassigned IP addresses with the mobile terminal.

19. (Currently Amended) An apparatus for communicating data between a wireline terminal and a mobile terminal in a telecommunications network, said system comprising:

a memory including

a first table including information for identifying a mobile identification number associated with the mobile terminal; and

a second table including information for identifying a home location register associated with the mobile identification number; and

code for receiving from the wireline terminal one or more data packets destined for the mobile terminal, and for determining a route that excludes a home node associated with the mobile identification number when a visited node serves the mobile identification number, and for establishing via the determined route a

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connection to the mobile terminal, and for sending the data packets on the established connection to the mobile terminal; and

a processor for running the code.

20. (Original) The apparatus of claim 19, wherein the information in the first table includes the mobile identification number and an identifier associated with the mobile terminal.

21. (Original) The system of claim 19, wherein the information in the first table includes the mobile identification number and an Internet Protocol (IP) address associated with the mobile terminal and the apparatus.

22. (Currently Amended) An apparatus for communicating data between a wireline terminal and a mobile terminal in a telecommunications network, said system comprising:

a memory including

a first table including information for identifying a mobile identification number associated with the mobile terminal; and

a second table including information for identifying a home location register associated with the mobile identification number; and

code for receiving from the wireline terminal one or more data packets destined for the mobile terminal, and for determining a route that excludes a home node associated with the mobile identification number when a visited node serves

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the mobile identification number, and for establishing via the determined route a connection to the mobile terminal, and for sending the data packets on the established connection to the mobile terminal; and

a processor for running the code, [[:]] and

~~a second table including information for identifying a home location register associated with the mobile identification number.~~

23. (Original) The system of claim 22, wherein the information in the second table includes a point code associated with the home location register.

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24. (Original) The system of claim 22, wherein the information in the second table includes a range of one or more directory numbers associated with the home location register.

25. (Original) A system for communicating data between a wireline terminal and a mobile terminal in a telecommunications network, said system comprising:

a server comprising

a first table including information for identifying a mobile identification number associated with the mobile terminal;

a second table including information for identifying a home location register associated with the mobile identification number; and

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code for receiving from the wireline terminal one or more data packets destined for the mobile terminal, and for determining a route that excludes a home node associated with the mobile identification number when a visited node serves the mobile identification number, and for establishing via the determined route a connection to the mobile terminal, and for sending the data packets on the established connection to the mobile terminal;

a processor for running the code; and

a packet network for providing communication between the wireline terminal and the server.

26. (Original) The system of claim 25, further comprising:

a plurality of modems interfacing the server and a wireline switch for establishing communication between the server and the mobile terminal.

27. (Original) The system of claim 25, further comprising:

one or more modems interfacing the server and a wireless switch for establishing communication between the server and the mobile terminal.

28. (Currently Amended) A network, comprising:

a home node serving a mobile terminal when the mobile terminal is in a geographical area served by the home node;

a visited node serving the mobile terminal when the mobile terminal is outside of the geographical area served by the home node; and

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a server for receiving from a wireline terminal one or more data packets destined for the mobile terminal, and for determining a route that excludes the home node when the mobile terminal is served by the visited node, and for establishing via the determined route a connection to the mobile terminal, and for sending the data packets on the established connection to the mobile terminal[.];

means for preassigning a plurality of Internet Protocol (IP) addresses to the server; and

means for configuring the server to associate one of the preassigned IP addresses with the mobile terminal.

29. (Currently Amended) A computer-readable medium capable of configuring a computer to perform a method for communicating data between a wireline terminal and a mobile terminal in a telecommunications network, said method comprising the steps of:

receiving from the wireline terminal data destined for the mobile terminal;
identifying a mobile identification number associated with the mobile terminal;

determining a route that excludes a home node associated with the identified mobile identification number when a visited node serves the identified mobile identification number;

establishing a connection via the determined route to the mobile terminal;
and

sending the data to the mobile terminal on the established connection[.];

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preassigning a plurality of Internet Protocol (IP) addresses to the server;
and
configuring the server to associate one of the preassigned IP addresses
with the mobile terminal.

30. (Currently Amended) A method for communicating data from a wireline terminal to a mobile terminal in a telecommunications network, said method comprising the steps, performed by a server, of:

receiving data destined for the mobile terminal; and

providing a route that excludes a home node associated with the mobile terminal when a visited node serves the mobile terminal for communicating the received data[.];

preassigning a plurality of Internet Protocol (IP) addresses to the server;
and
configuring the server to associate one of the preassigned IP addresses
with the mobile terminal.